BookletChart

San Francisco Bay - Southern Part

(NOAA Chart 18651)

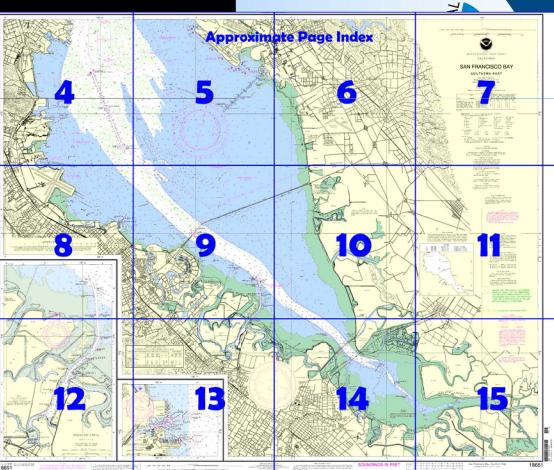


A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

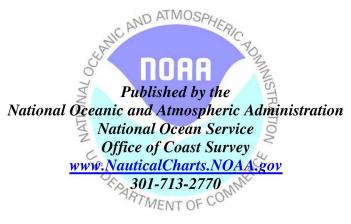
- ☑ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ☑ Convenient size
- ☑ Up to date with all Notices to Mariners

NOAA

- ☑ United States Coast Pilot excerpts
- Compiled by NOAA, the nation's chartmaker.



Home Edition (not for sale)



What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart $\stackrel{\text{\tiny TM}}{=}$?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 7, Chapter 7 excerpts] (356) S of San Francisco, Point Avisadero, which is the E extremity of Hunters Point, Sierra Point, Oyster Point, Point San Bruno, and Coyote Point, all on the W shore of the bay, are prominent natural features. A naval restricted area is offshore of Hunters Point. In January 1986, a sunken wreck was reported about 1 mile SE of Point Avisadero in about 37°42'59"N., 122°20'30"W. The Bayshore Freeway extends S on a filled area from the vicinity of Candlestick Point, and

cuts back inland at Sierra Point. Sierra Point is the site of a small-boat harbor which can accommodate about 500 boats. **Oyster Point Channel,** marked by private lights, has depths of about 5 feet, except for a 2-foot shoal in about 37°40'09.5"N., 122°22'47.5"W., and leads to a small basin. A spur channel, marked by private lights, branches off the N side of

Oyster Point Channel and leads to the entrance to the small-boat harbor at Sierra Point. The basin at the end of Oyster Point Channel has two private wharves in ruins and sheds on the W side; a marina that can accommodate about 200 boats is on the S side.

(357) **Oyster Point,** a low filled area, is the site of a small-boat harbor accommodating about 570 boats. Depths of about 6 feet are in the harbor. The entrance channels E and NE of the harbor are marked by private lights. In 1981, the E entrance channel had a controlling depth of 6 feet. Transients should report to the harbormaster's office for berth assignment. A prominent sculptured tower is on the hill 0.7 mile S of Oyster Point; the tower is floodlighted.

(358) The area between Point San Bruno and Coyote Point is occupied by **San Francisco International Airport.**

(359) Coyote Point is covered by a heavy growth of trees and is raised as an island. It is the most prominent point on the S bay. A small-craft harbor accommodating about 580 boats is on the E side of the point. The entrance channel, marked by a private lighted range and two private lights, had a reported controlling depth of depth of 10 feet in 2002. The front range light is usually difficult to see because of obstructing boats and masts. The harbor, operated by San Mateo County, is composed of two basins having depths of about 8 feet. Transients should report to the harbormaster's office on the NW side of the harbor for berth assignment; guest berths are usually available. A harbor patrol boat is maintained. (361) The San Mateo-Hayward Bridge crossing the lower part of San Francisco Bay near San Mateo has a fixed span with a clearance of 135 feet over the main channel. The bridge is marked at mid span by racon. An overhead power cable with a clearance of 160 feet over the main channel crosses the bay just S of the bridge.

(362) A section of the old San Mateo lift bridge, now used as a fishing pier, extends 4,135 feet from the San Mateo shore just S of the new bridge. A part of the fishing pier extends into the W part of the main channel. A private light, 12 feet above the water, marks the NE leg of a transmission line tower close E of the seaward end of the fishing pier. (363) In June 1983, a 34-foot shoal was reported to extend from under to just SE of the bridge in about 37°35'N., 122°15'W.

(364) **Redwood Creek**, 4 miles SE of San Mateo Bridge, is entered through a marked channel that leads to the municipal wharves at the **Port of Redwood City**, 2.5 miles above the mouth. Turning basins are to the N and S of the wharves. Federal project depths are 30 feet in the channel and basins. (See Notice to Mariners and latest editions of charts for controlling depths.)

(365) Overhead power cables across the waterway have a clearance of 155 feet. Prominent silos of a cement plant are at the junction with **Westpoint Slough**, just N of the port.

(371) **Redwood City** is 2 miles S of the port facilities. Redwood City Municipal Marina, just S of the port, can accommodate about 225 small craft. Other small-craft facilities are SW of the Municipal Marina. (372) **Ravenswood Point** and **Dumbarton Point** are at the head of the bay and the mouth of Coyote Creek. Two bridges and an aqueduct cross the bay at this point. The **Dumbarton Highway Bridge**, the NW bridge

the bay at this point. The **Dumbarton Highway Bridge**, the NW bridge, has a fixed span with a clearance of 85 feet. About 1,100 yards SE of the Dumbarton bridge, an aqueduct, used to supply the city of San Francisco with water, crosses the bay. On the W shore, the aqueduct is carried on a trestle to a concrete building (charted) where it tunnels the channel to the E shore. The **Dumbarton Railroad Bridge**, just S, has a swing span with a clearance of 13 feet. The bridge is maintained in the open position. (373) **Coyote Creek** has many tributary sloughs. The main channel is marked as far as **Calaveras Point**, about 4 miles above the railroad bridge at Dumbarton Point. The power cables, 1.3 miles above Calaveras Point, have a clearance of 65 feet.

(374) A channel, marked by a daybeacon and buoys, leads for about 3 miles through **Guadalupe Slough.** In July 1985, a submerged obstruction with 3 feet over it was about 150 yards NNW of Daybeacon 20; caution is advised when transiting the area. An overhead power cable with a

is advised when transiting the area. An overhead power cable with clearance of 65 feet crosses the slough about 1 mile above the entrance.

Corrected through NM Apr. 29/06 Corrected through LNM Apr. 18/06

HEIGHTS

Heights in feet above Mean High Water.

PLANE COORDINATE GRID (based on NAD 1927)

California State Grid zone III is indicated by ticks at 5,000 foot intervals. The last three digits of the grid numbers are omitted.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which is North American Datum of 1983 (NAD 83), which for charling purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.24" southward and 3.881" westward to agree with this chart.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

Mariners are warned that numerous uncharted piles, snags, pumps, siphons, and pipes, some submerged, may exist along the edges of the

NOTE C

Borrow dredging has taken place in this general area. Depths are from survey of 1980. Actual depths may be greater than charted depths.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather RADIO BROADCASTS
The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Mt. Pise, CA KHB-49 162.40 MHz WX2 Mt. Umunhum, CA KEC-49 162.55 MHz WX1 Mt. Umunhum, CA WWF-64 162.45 MHz WX5

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas

Cable Area Pipeline Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling. Covered wells may be marked by lighted or unlighted buoys.

Covered wells unlighted buoys.

CAUTION

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial

broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

(Accurate location) o(Approximate location)

Table of Selected Chart Notes

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 11th Coast Guard District in Alameda, California or at the Office of the District Engineer, Corps of Engineers in San Francisco, California.

Refer to charted regulation section numbers.

Refer to charted regulation section numbers.

Additional information can be obtained at nauticalcharts.noaa.gov.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey with additional data from the Corps of Engineers, Geological Survey, U.S. Coast Guard, and Department of the Navy.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, <u>United States Coast Pilot.</u>

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

| ABBREVIATIONS (For Aids to Navigation (lights | | rmbols and Abbreviatio herwise indicated): | ns, see Chart No. 1.) | | | |
|---|-----------------------|---|------------------------|--------------------|--|--|
| AERO aeronautical | G gree | n | Mo morse code | R TR radio tower | | |
| Al alternating IQ | | rrupted quick | N nun | Rot rotating | | |
| B black Iso isophase | | phase | OBSC obscured | s seconds | | |
| Bn beacon LT HO light | | lighthouse | Oc occulting | SEC sector | | |
| C can M nautic | | tical mile | Or orange | St M statute miles | | |
| DIA diaphone m mini | | utes | Q quick | VQ very quick | | |
| F fixed MICRO | | TR microwave tower R red | | W white | | |
| Fi flashing | ashing Mkr marker | | Ra Ref radar reflec | tor WHIS whistle | | |
| | | | R Bn radiobeacon | Y yellow | | |
| Bottom characteristics: | | | | | | |
| Bids boulders | Co coral | gy gray | Oys oysters | so soft | | |
| bk broken | G gravel | h hard | Rk rock | Sh shells | | |
| Cy clay | Grs grass | M mud | S sand | sy sticky | | |
| Miscellaneous: | | | | | | |
| AUTH authorized Ot | | obstruction | PD position doubtful | Subm submerged | | |
| ED existence doubtful PA position approximate | | | Rep reported | | | |
| ,21, Wreck, rock, | obstruction, or short | al swept clear to the | depth indicated. | | | |
| | | | have datum of sounding | 18. | | |

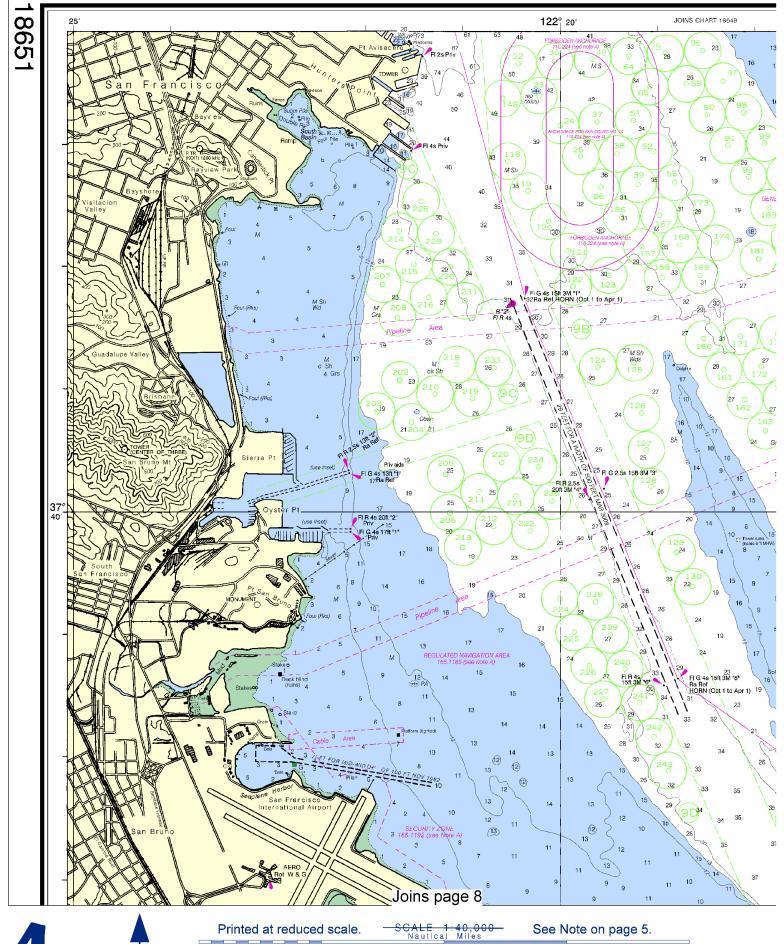
| , | ~ - 3 1 10 (1) 10 | | , | | | | // | |
|---|---|----------------------------|------------------------------|-----------------------------|----------------|-----------------|----------------------------|-------------------------|
| • | REDWOOD CITY HARBOR CHANNEL DEPTHS | | | | | | | |
| | TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2010 | | | | | | | |
| | CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) PROJECT DIMENSIONS | | | | | | ISIONS | |
| | NAME OF CHANNEL | LEFT OUTSIDE QUARTER | MIDDLE HALF OF CHANNEL | RIGHT OUTSIDE QUARTER | DATE OF SURVEY | WIDTH (FEET) | LENGTH (NAUT. MILES) | DEPTH MLLW (FEET) |
| | CHANNEL ENTRANCE (37°33'10"N., 122°11'43"W.) | | | | | | | |
| 2 | TO LIGHT 8 | 29.0 | 29.0 | 28.0 | 7-10 | 700-300 | 1.07 | 30 |
| | LIGHT 8 TO LIGHT 14 | 27.0 | 28.0 | 27.0 | 7-10 | 300-350 | .90 | 30 |
| 7 | LIGHT 14 TO LIGHT 15 | 28.0 | 29.0 | 28.0 | 7-10 | 300 | .28 | 30 |
| | NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | |

PRINT-ON-DEMAND CHARTS

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| TIDAL INFORMATION | | | | | | | | |
|--|--|------------------------------|--|------------------------------|----------------------|--|--|--|
| Place | Height referred to datum of soundings (MLLW) | | | | | | | |
| Name | (LAT/LONG) | Mean Higher High Water | Mean High Water | Mean Lower Low Water | Extreme Low Water | | | |
| San Mateo Bridge (East End) (37°3 San Mateo Bridge (West End) (37°3 Redwood City (Wharf 5) (37°3 Dumbarton Highway Bridge (37°3 | 14'N/122°21'W) 16'N/122°11'W) 15'N/122°15'W) 10'N/122°13'W) 10'N/122°13'W) 10'N/122°07'W) 18'N/121°59'W) | feet 6.7 7.7 7.7 8.2 8.5 7.5 | feet 6 . 1 7 . 1 7 . 1 7 . 6 7 . 9 6 . 9 | feet 1.1 1.2 1.2 1.2 1.2 0.5 | feet -2.5 -2.52.5 | | | |

(Jan 2006)

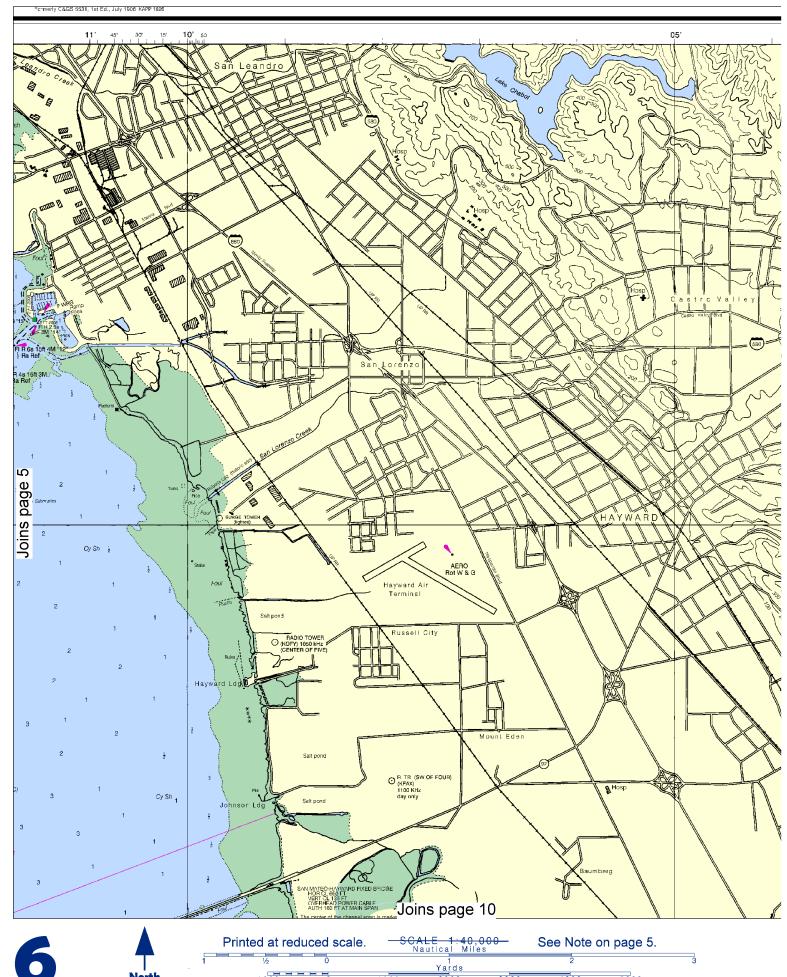






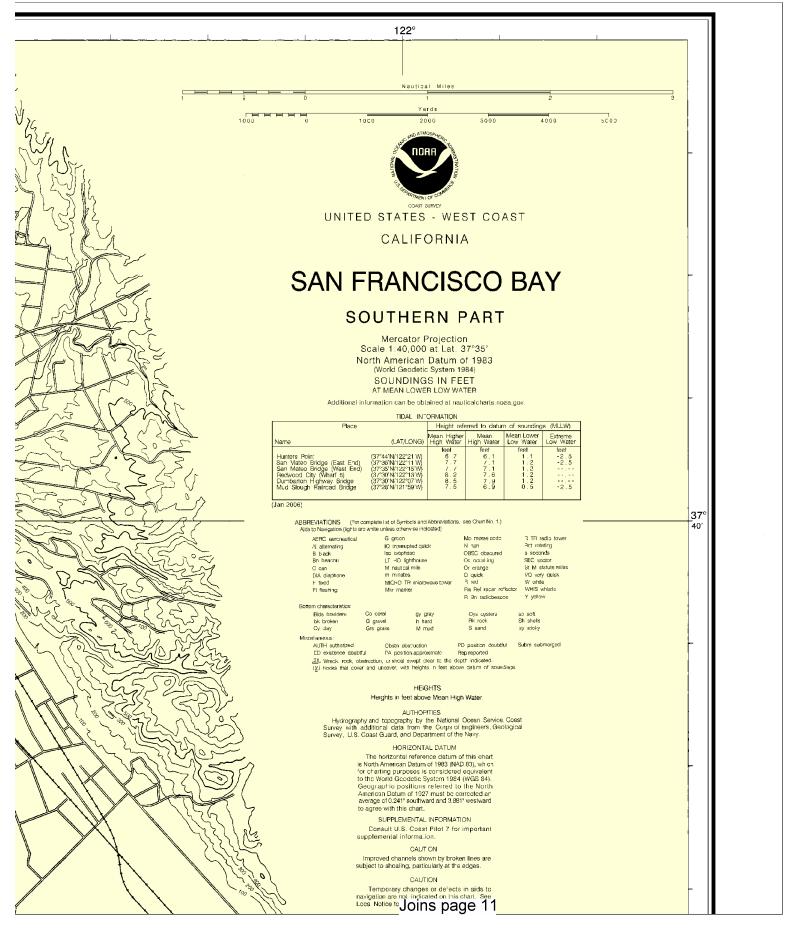
This BookletChart was reduced to 70% of the original chart scale. The new scale is 1:57143. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

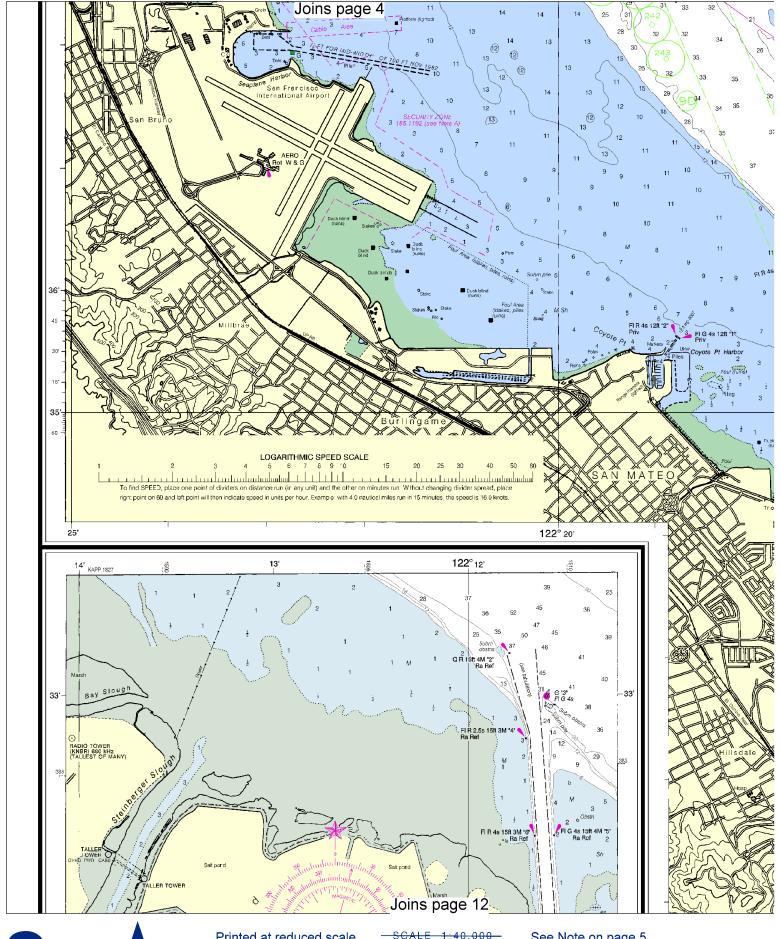
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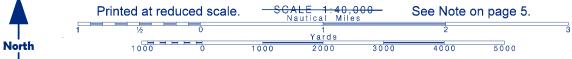


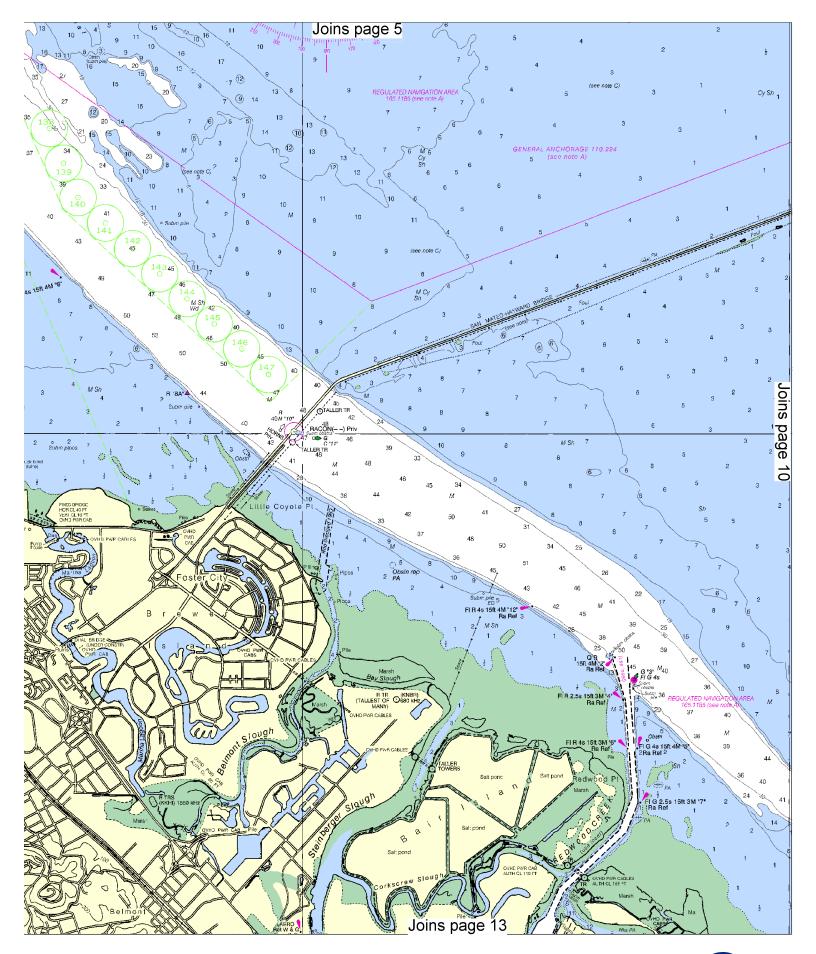




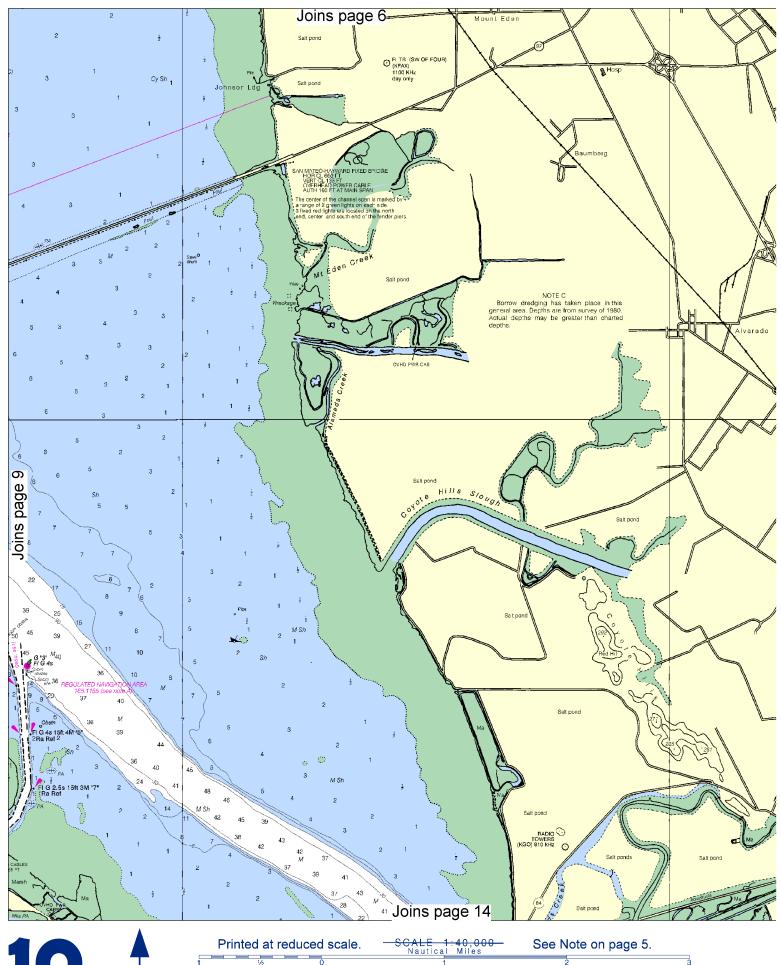




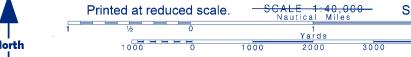


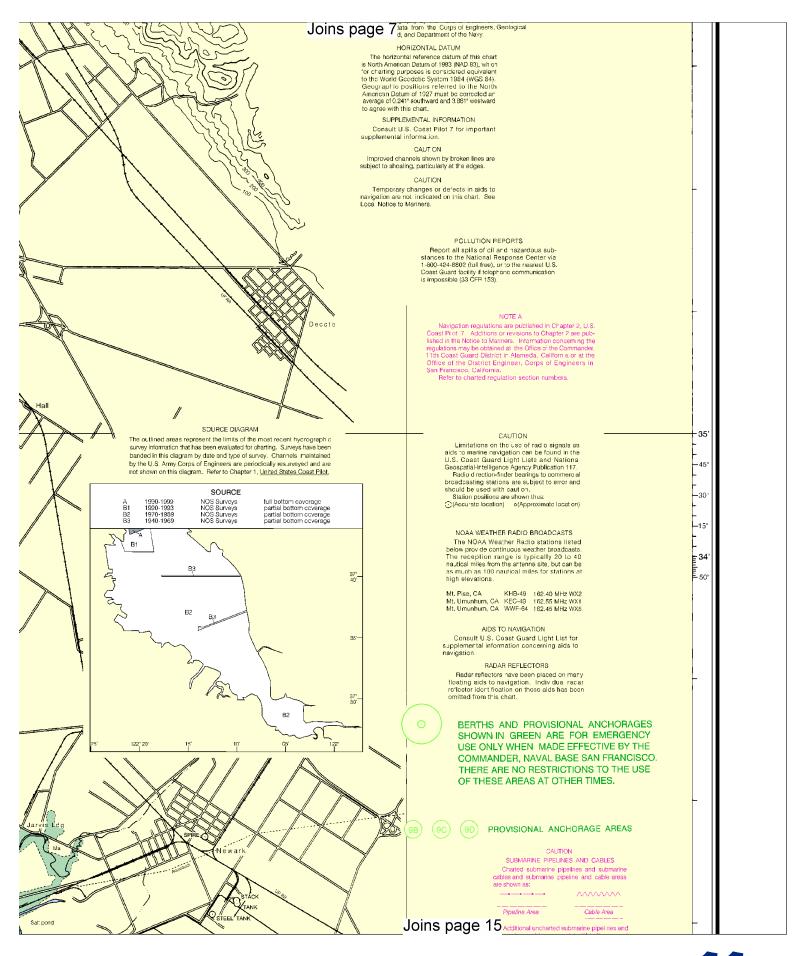


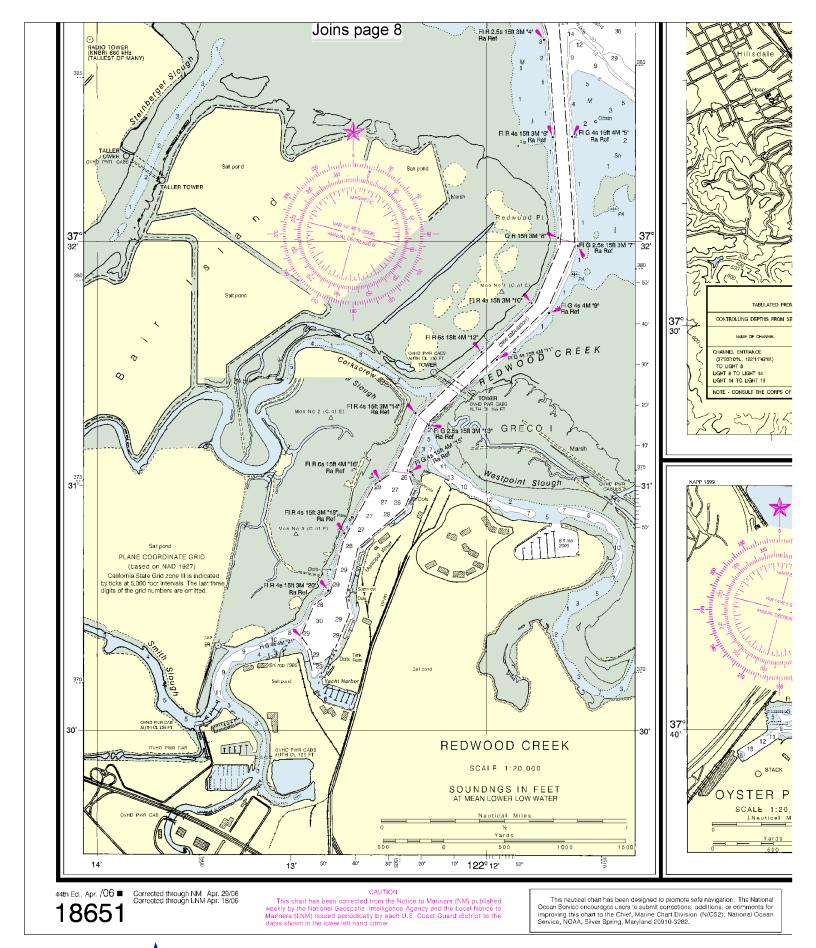




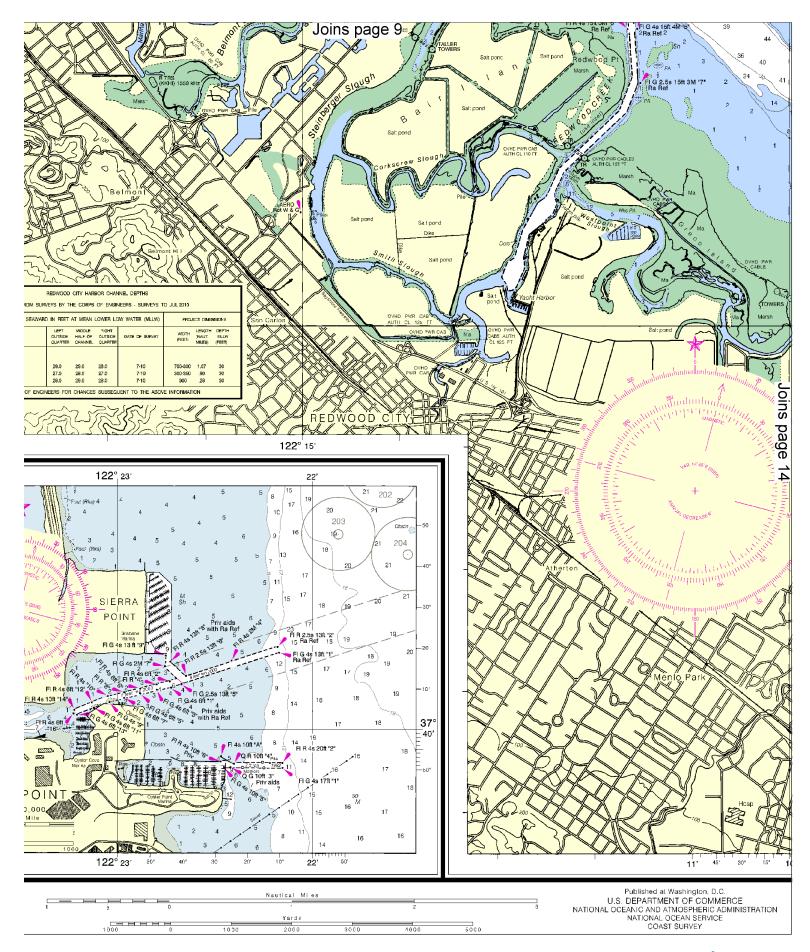


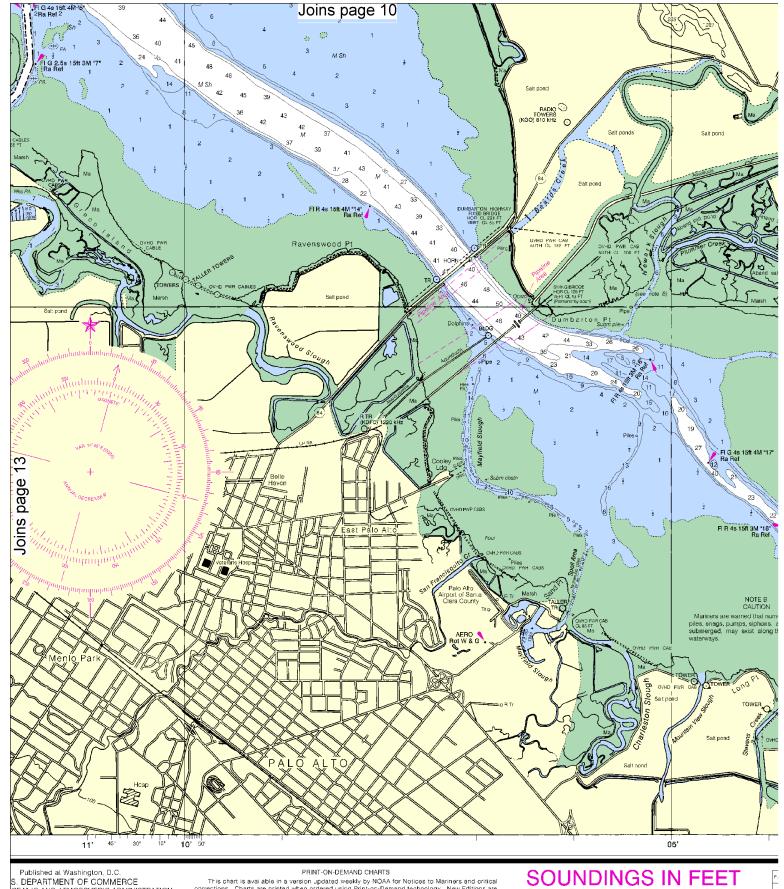










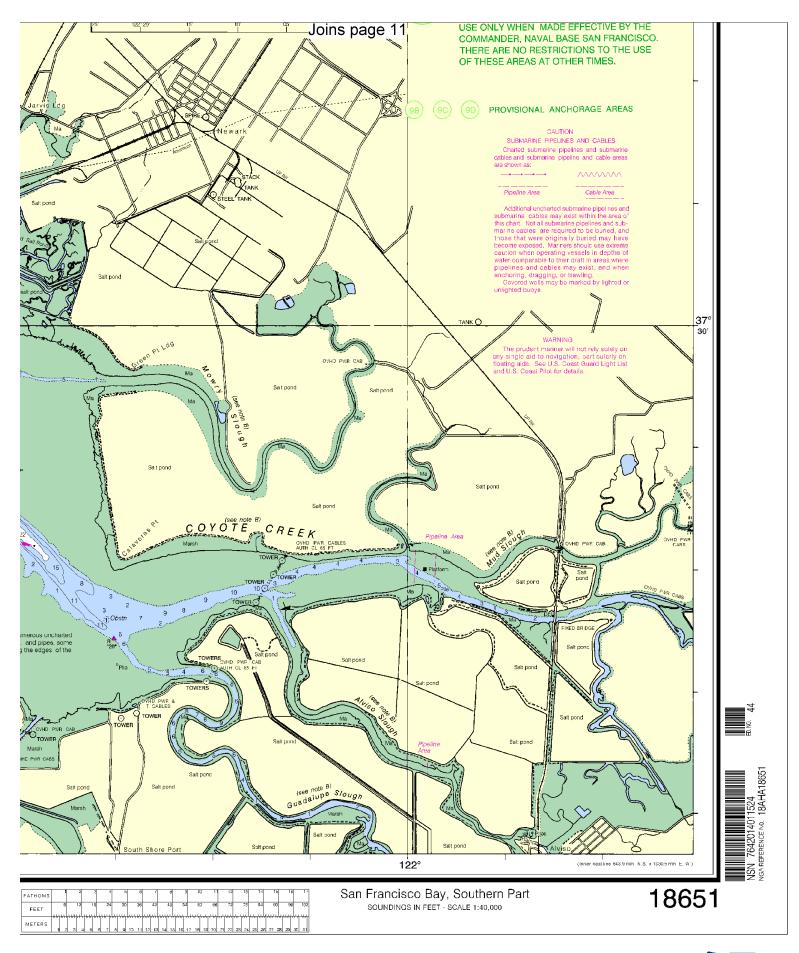


CEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE COAST SURVEY

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EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls

to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

- 1. Make sure radio is on.
- 2. Select Channel 16.
- 3. Press/Hold the transmit button.
- 4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- 6. Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!!

Mobile Phones – Call 911 for water rescue.

Coast Guard Search & Rescue – 510-437-3700 Coast Guard San Francisco – 415-399-3479 Commercial Vessel Assistance – 1-800-367-8222

<u>NOAA Weather Radio</u> – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

<u>Getting and Giving Help</u> – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



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Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts — These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENCs®) –

ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

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RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketChartsTM – PocketChartsTM are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot® – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm.

Internet Sites: www.Noa.gov, <a href="